

PATENT L1060

## IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Thomas Lyon

Serial No.:

10/651,327

Filed:

August 28, 2003

For:

INSERT FOR STEEL PLATES

Art Unit:

7679

Examiner:

Neill R. Wilson

## DECLARATION UNDER 37 C.F.R. 1.132

I, the undersigned, Thomas Lyon, a United States Citizen, residing at 23848 Oak Meadow drive, Ramona, California 92065, declare and say:

I began employment at Trench Plate Rental Company on February 11, 1985.

I have been engaged in the research and development of Inserts for Steel Plates since July 2001.

Screws, bolts, threaded rod and nuts having coil threads are a commercially available product. My employer, Trench Plate Rental Company, has purchased threaded rod and nuts having coil threads from Cordova Bolt of Buena Park, California.

Tooling for Coil threads are commercially available from Western Tap Manufacturing, also of Buena Park, California. A product brochure of Western Tap

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Manufacturing Company, Inc. is attached to my Declaration as Exhibit A. It sets forth that coil thread taps that are available for sale by Western Tap Manufacturing Company and it also contains the engineering specifications for coil threads for nuts and screws.

I declare, under penalty of perjury, that the foregoing is true and correct. Dated on August 20, 2004 at Escondido, California.

Thomas I

Tuesday, June 29, 2004 12:20 PM

To: Tom Lyons

From: Rob McPherson,

(714) 228-0662

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# WESTERN TAP MFG. CO., INC. 6870 ORAN CIRCLE - BUENA PARK, CALIFORNIA 90621-3374

## (714) 521-1530 \* (800) 253-8277 \* FAX (800) 760-7440 COIL THREAD TAPS

PRICES APPLY FOR STRAIGHT FLUTE, RIGHT OR LEFT HAND, ON HAND TAP BLANKS

SIZE	TPI	OAL	QUANTITY PRICE PER TAP					
			THREAD	1	2	3-5	6-11	12
3/8	7	2 15/16"	1 1/4"	\$110.00	\$90.00	\$70.00	\$65.00	\$60.00
1/2	6	3 3/8"	1 21/32"	\$115.00	\$95.00	\$80.00	\$75.00	\$70.00
5/8	4 1/2	3 13/16"	1 13/16"	\$1,25.00	\$105.00	\$90.00	\$85.00	\$80.00
3/4	4 1/2	4 1/4"	2"	\$140.00	\$120.00	\$110.00	\$105.00	\$100.00
3/4	4 1/2	6"	3"	\$170.00	\$140.00	\$130.00	\$125.00	\$120.00
7/8	4 1/2	4 11/16"	2 7/32"	\$180.00	\$160.00	\$150.00	\$140.00	\$125.00
1"	3 1/2	5 1/8"	2 1/2"	\$185.00	\$170.00	\$160.00	\$150.00	\$130.00
1 1/4"	3 1/2	5 3/4"	2 9/16"	\$220.00	\$200.00	\$190.00	\$170.00	\$140.00
1 1/2"	3 1/2	6 3/8"	3"	\$250.00	\$230.00	\$210.00	\$200.00	\$190.00
2"	3 1/2	7 5/8"	3 9/16"	\$402.00	\$390.00	\$370.00	\$354.00	\$339.00

#### ENGINEERING SPECIFICATIONS FOR COIL THREADS

#### **NUTS**

SIZE MIN. MINOR MAY MINOR MIN MAYOR						
	MIN. MINOR	MAX. MINOR	MIN. MAJOR	MAX. MAJOR		
3/8-7	0.322	0.327	0.375	0.380		
1/2-6 0.430 5/8-4 ½ 0.545		0.435	0.500	0.505 0.630		
		0.555	0.625			
3/4-4 1/2	0.645	0.655	0.750	0.755		
7/8-4 ½ 0.765 1"-3 ½ 0.860 1/4"-3 ½ 1.100		0.775	0.875	0.885 1.005 1.255		
		0.870	1.000			
		1.110	1.250			
1/2"-3 1/2	1.350	1.360	1.500	1.505		
2"-3 ½ 1.850		1.860	2.000	2.010		

#### **SCREWS**

SIZE	MIN. MINOR	MAX. MINOR	MIN. MAJOR	MAX. MAJOR
3/8-7	0.312	0.317	0.375	0.370
1/2-6	0.415	0.425	0.485	0.495
5/8-4 1/2 0.525		0.535	0.610	0.620
3/4-4 1/2	0.630	0.640	0.730	0.740
7/8-4 ½ 0.750 1"-3 ½ 0.840 1/4"-3 ½ 1.080		0.760	0.855	0.865 0.990 1.240
		0.850	0.980	
		1.090	1.230	
1/2"-3 1/2	1.330	1.340	1.480	1.490
2"-3 1/2	1.830	1.840	1.980	1.990

THE THREAD RADIUS IS EQUAL TO 1/2 THE PITCH